

ELECTRONIC TUBE REFERENCE

7634

Specialized - Photo Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PHOTOCONDUCTIVEDETECTOR

Uncooled lead-sulphide photoconductive infrared detector designed for chopped or pulsating radiation. It provides high room-temperature infrared sensitivity by converting incident radiation into changes in electrical conductivity.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1	PhotoconductiveDetector
No fixed ratings recorded. Promoted values are taken directly from the supplied datasheet; additional ratings, characteristics and operating points are preserved in TUBE_SECTION_PARAMETER.	

Uncooled lead-sulphide photoconductive infrared cell for chopped or pulsating radiation, with high room-temperature infrared sensitivity.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Mullard

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1963 MULLARD

Section 1 · PhotoconductiveDetector

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum applied voltage	250 V	—
Maximum current	500 uA	—
Maximum operating ambient temperature	60 degC	—
Maximum storage temperature	60 degC	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak spectral response	2.5 um	—
Spectral response minimum	0.3 um	—
Spectral response maximum	3.5 um	—
Sensitivity	180 uV/uW	BlackBody=200C;Peak
Signal-to-noise ratio	150 ratio	BlackBody=200C
Noise equivalent power	5e-12 W	Bandwidth=1Hz
Sensitivity to tungsten light	3 mA/lm	Peak;2700K
Time constant	75 us	—
Noise equivalent power	5.5e-11 W	Wavelength=2um
Dark-resistance temperature coefficient	-2 %/degC	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

